

FIGURE 1

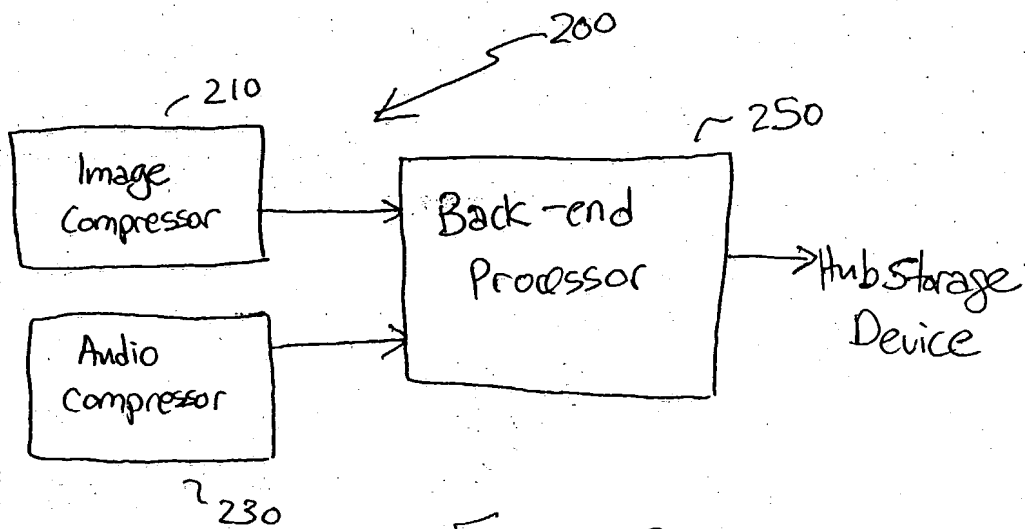


Figure 2

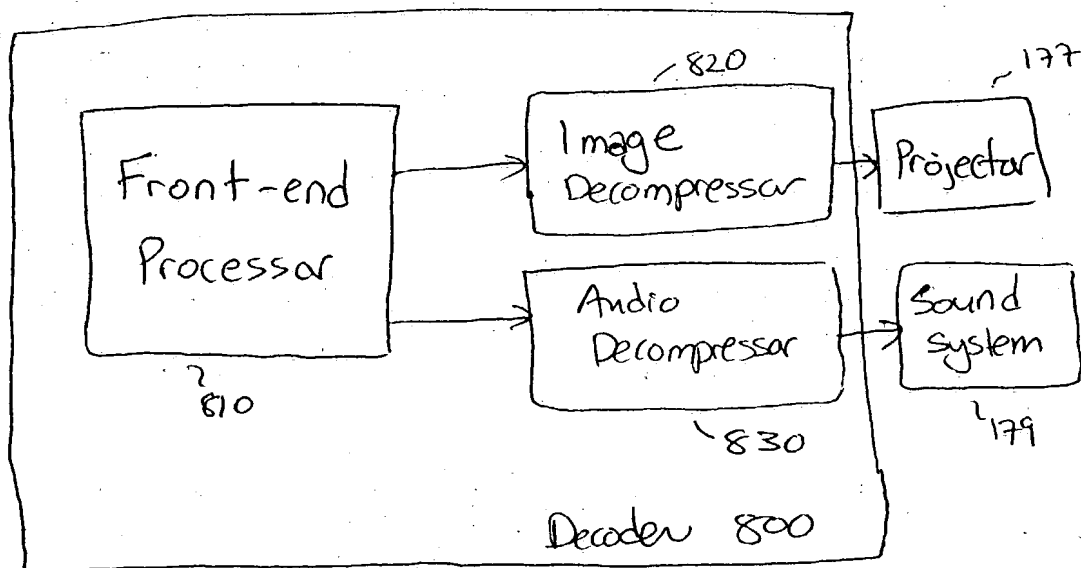
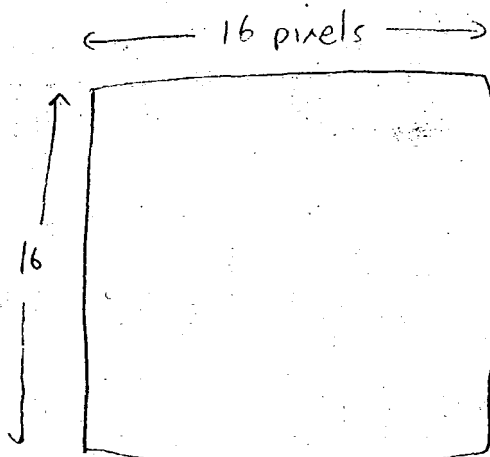


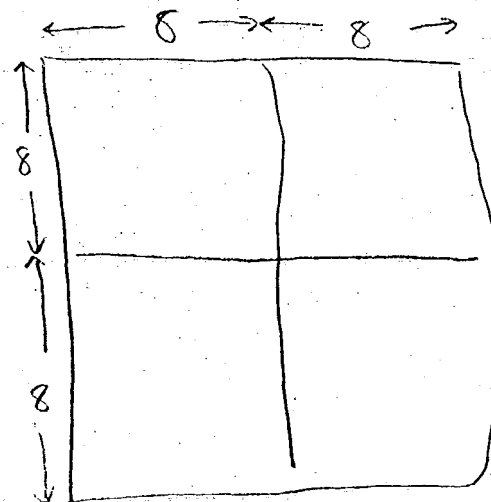
Figure 8

Figure 3A



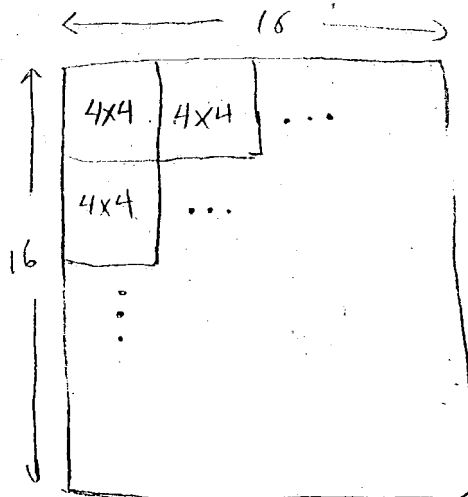
First ordering

3B



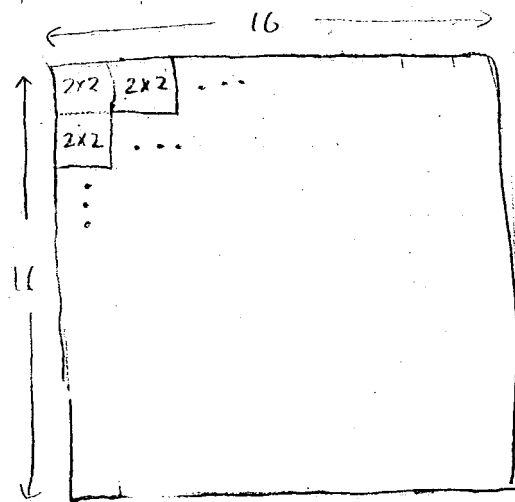
Second ordering

3C

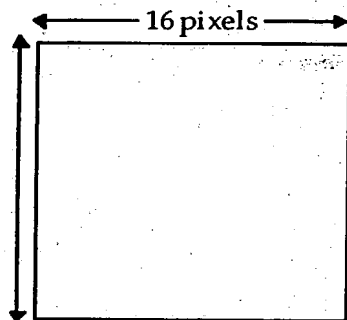


Third Ordering

3D

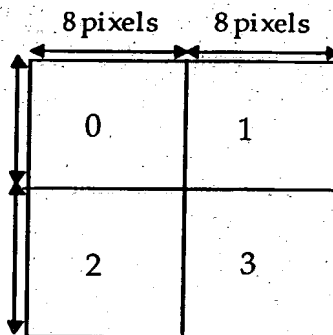


Fourth ordering



R=0

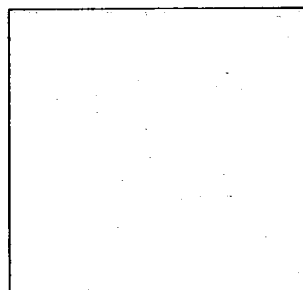
Figure 4A



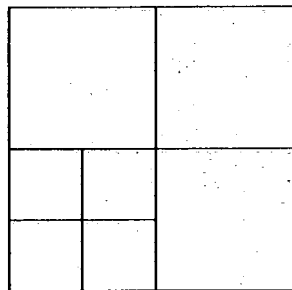
R=1

Figure 4B

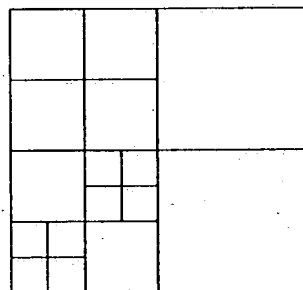
Figure 5A



PQR = 0

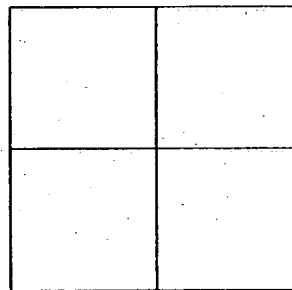


PQR = 0000 0100 1



PQR = 0110 0000 0101 1

Figure 5C



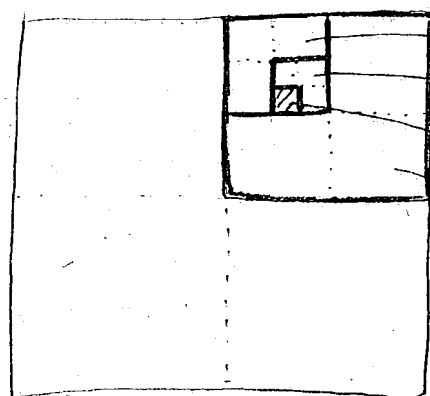
PQR = 0000 1

Figure 5D

Figure 6A

$$(Y, X) = (Y_3 Y_2 Y_1 Y_0, X_3 X_2 X_1 X_0)$$

Figure 6C



$$(Y_2, X_2) = (0, 0)$$

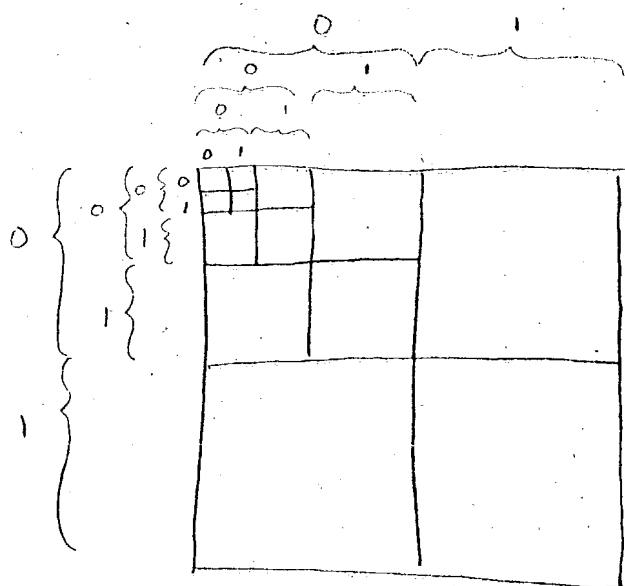
$$(Y_1, X_1) = (1, 1)$$

$$(Y_0, X_0) = (1, 0)$$

$$(Y_3, X_3) = (0, 1)$$

$$(Y, X) = (0011, 1010)$$

Figure 6B



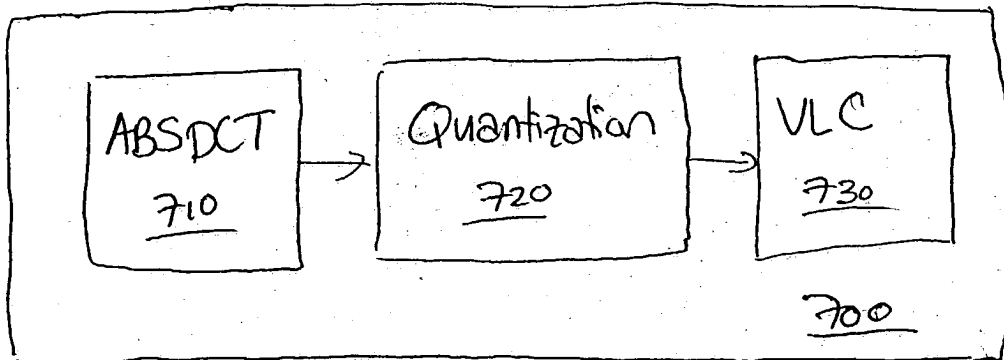
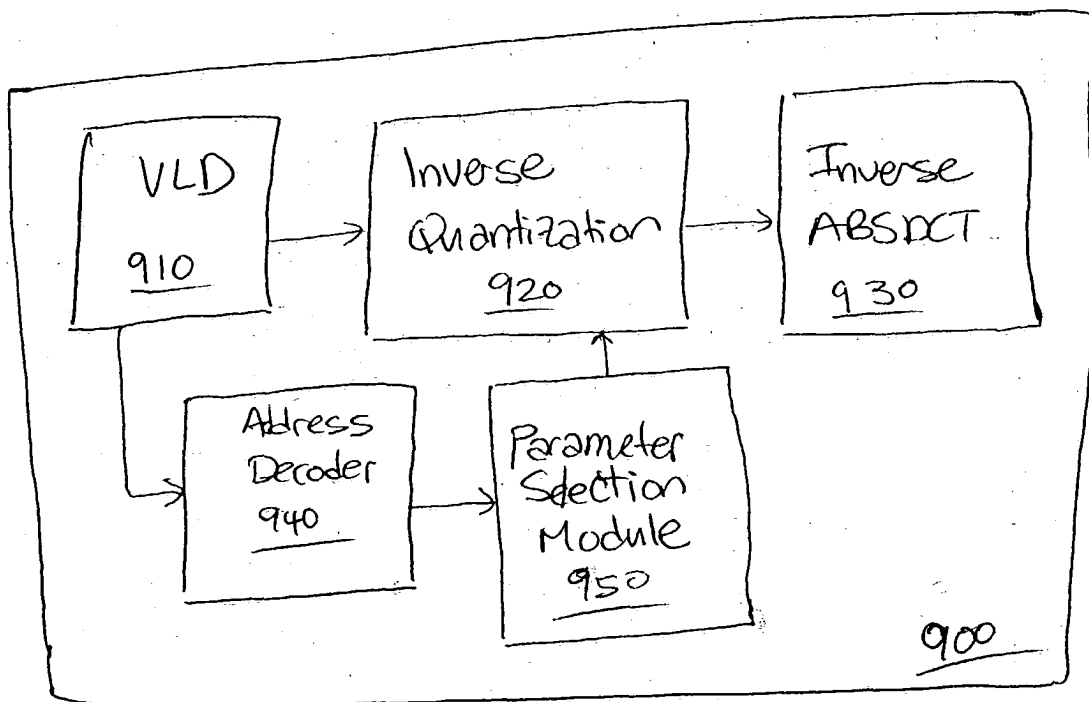


Figure 7



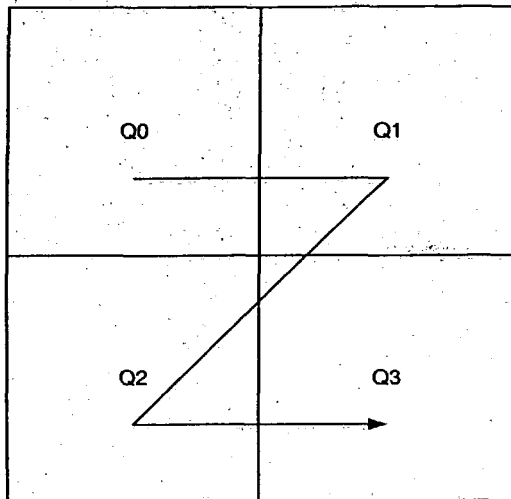
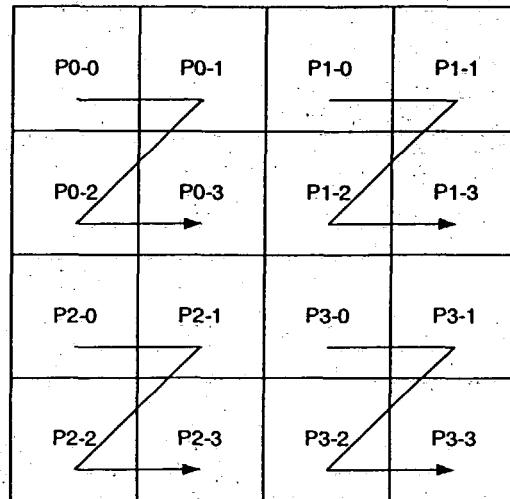
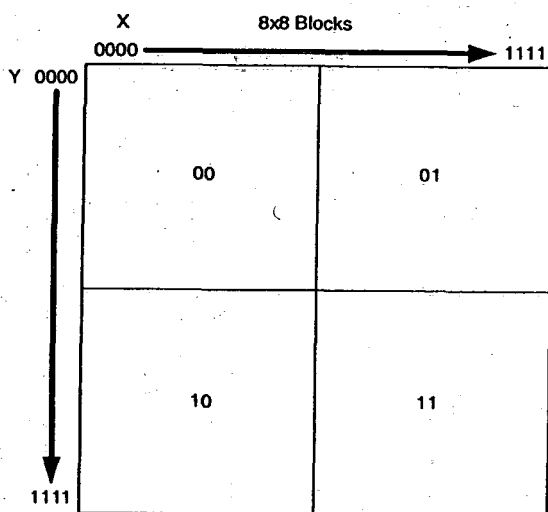


Figure 10A

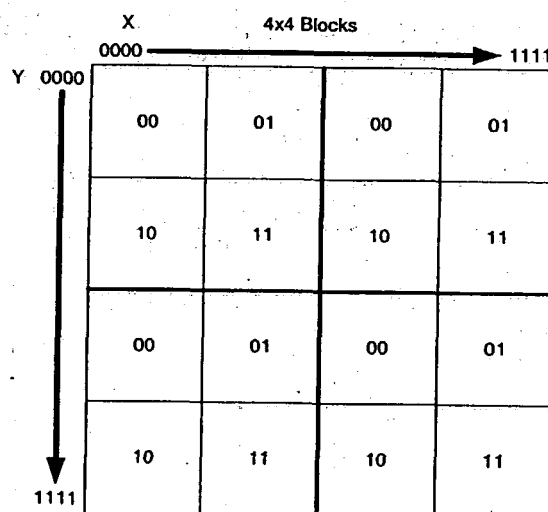


10B



Location =  $\begin{matrix} Y_3 & X_3 \\ \downarrow & \downarrow \\ 3 & 3 \end{matrix}$

Figure 11A



Location =  $\begin{matrix} Y_2 & X_2 \\ \downarrow & \downarrow \\ 2 & 2 \end{matrix}$

11B

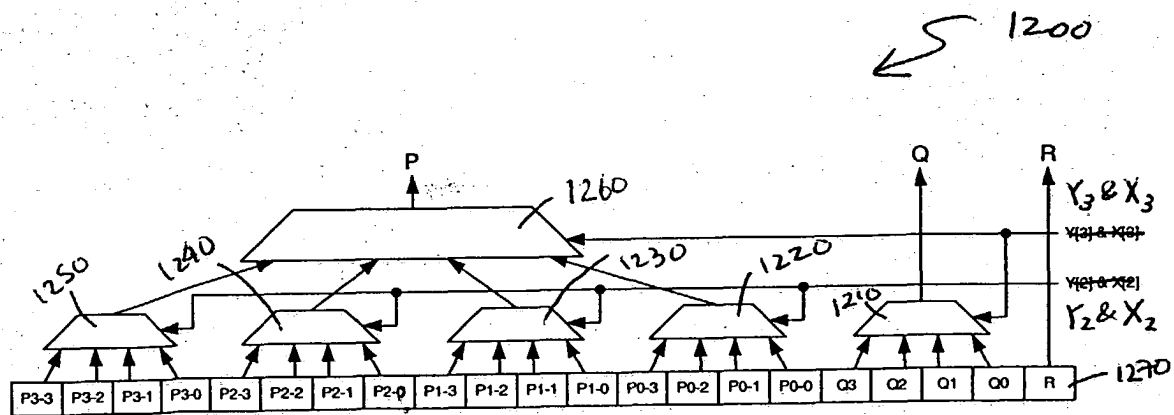


Figure 12

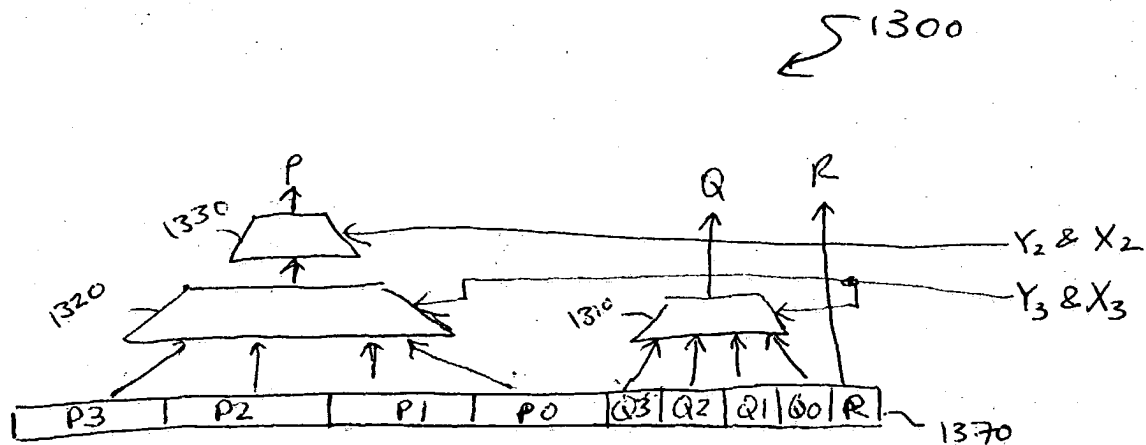


Figure 13



Figure 14

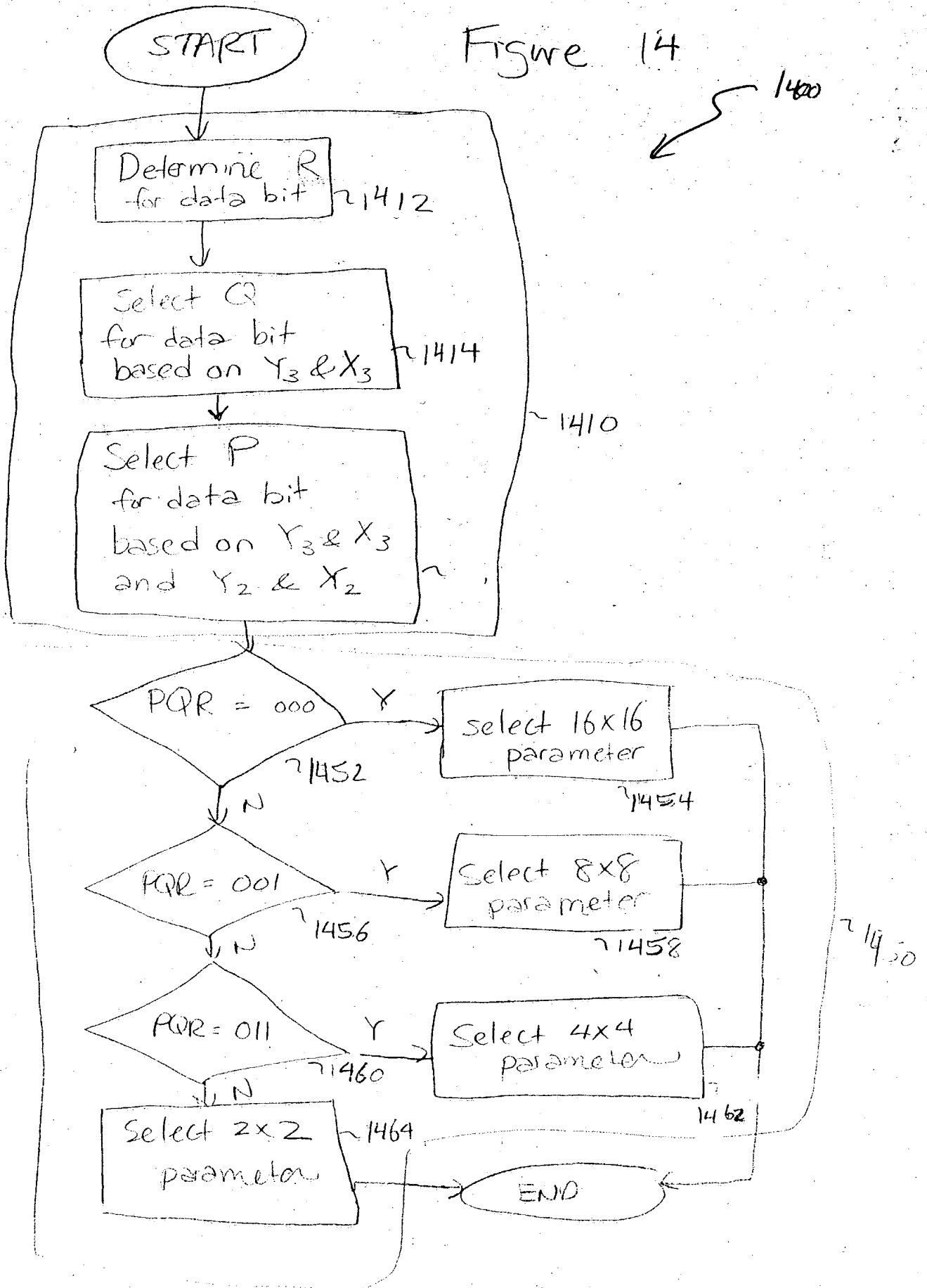
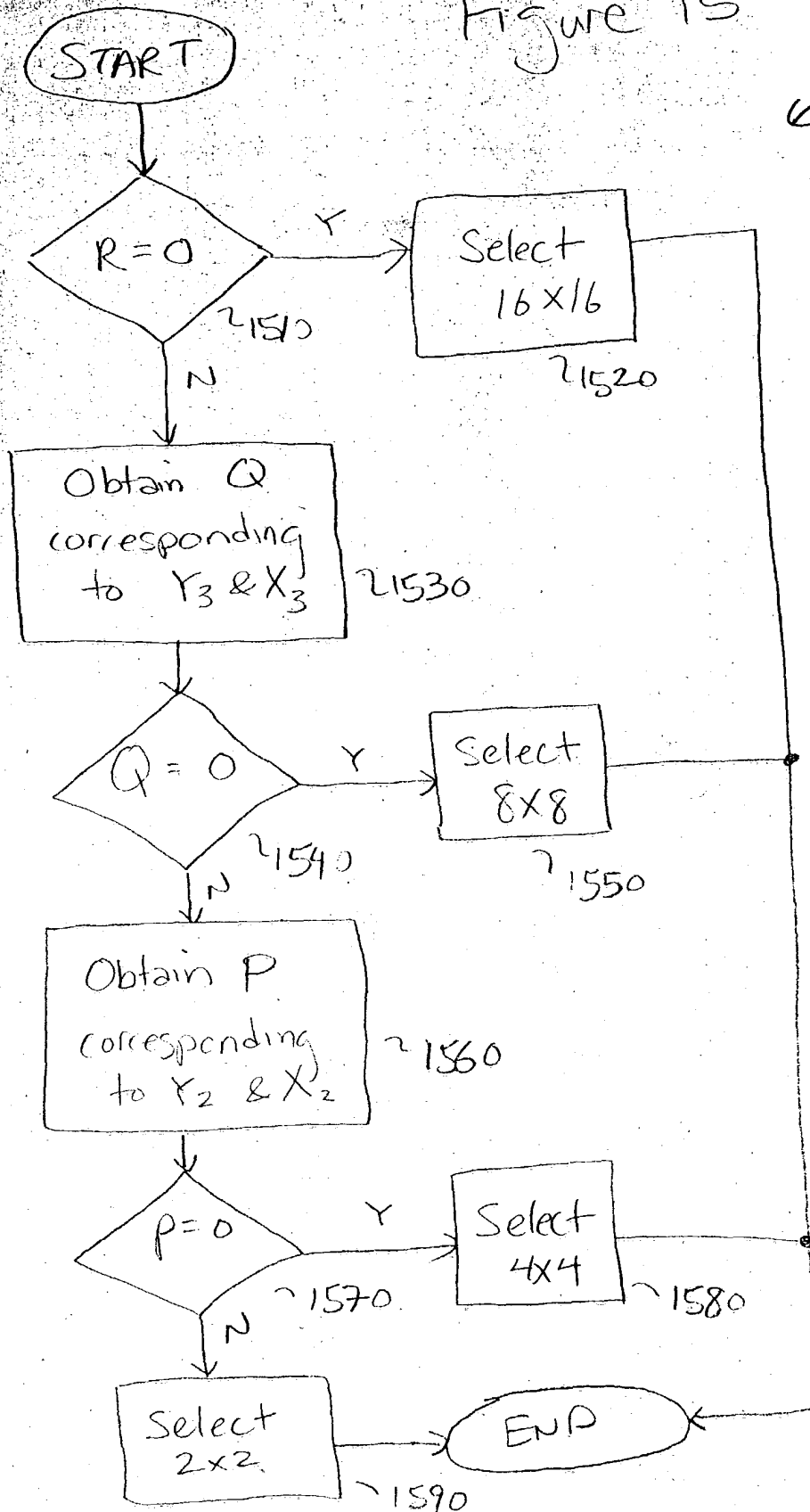


Figure 15



1500

Figure 16

